RASTA
Center for Road Technology

Letter No: RAS/ Con/ 15-16/ 519

To,
The Commissioner,
Office of the Commissioner, BBMP Head Office,
N.R.Circle,
Bangalore.

Date: 16.06.15

Dear Sir,

Ref: Your letter No. A/PR/G667/15-16 dated 02-05-2015
Sub: Inspection of Completed works and Pending Bills

With reference to the above subject the Inspection of the following works of Ward no. 7, Kodigehalli Sub Division, Byatarayanapura has been completed and the Inspection Report is enclosed for your reference.

1. Improvement to Roads and drains from NH-7 to Jakkur Kaval Road in Ward No 7 Kodigehalli Sub Division (Sl. No. 1)
2. Improvement of Roads in Muneshwara swamy Temple roads and cross roads at Amruthahalli in ward No.7 Kodigehalli Sub Division(Sl. No.2)
3. Improvements of Roads, drains and culverts in main Roads and Cross roads in Hottappa Layout in ward No. 7, Kodigehalli sub division (Sl. No.6)
4. Improvements to Road drains and asphalting to roads in Vinayaka L/O 1st main, 2nd stage in Ward No:07 Byatarayanapura in Kodigehalli sub division (Sl. NO. 8)
5. Improvement to Road drains and Asphalting to roads in Vinayaka L/O 2nd cross, 1st stage in ward no:07, Byatarayanapura in kodigehalli sub division (Sl. NO.9)
6. Improvement to Road drains and Asphalting to roads in Vinayaka L/O 2nd main, 2nd stage in ward no:07, Byatarayanapura in kodigehalli sub division (Sl. No.10)

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7. Improvement to Road drains and Asphalting to roads in Venkanagowda layout Kempapura 1st B Main in Ward No.07 (Sl. NO.12)
8. Improvements of Roads and construction of RCC drain in "A" Block Sahakarnagar in Ward No.07, Kodigehalli Sub division (Sl. NO. 13)
9. Improvement of Roads and drains in Vayunnadara layout and Nethajinagar in ward No.7 Kodigehalli Sub Division (Sl. NO. 14)
10. Construction of dry waste collection centre at Amruthanagara in Ward no:07 of Kodigehalli Sub division (Sl. NO. 17)
11. Construction of RCC drain at Maramma Temple main road in Amruthahalli in Ward No. 07 K.S.D (Sl. No. 18)
12. Providing and Fixing name boards in Vinayaka and Venkatagowda Layout in Ward No.07 Byatarayanapura, Kodigehalli sub division (Sl. NO. 19)
13. Improvements of Concrete roads and drains at Byatarayanapura in Ward No.07 of Kodigehalli sub division (Sl. NO. 28)
14. SC / ST Houses Bill (6 items)

Please do the needful.

Regards,

Dr. Krishnamurthy
Professor – PG studies & STA
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Copy to:

1. Executive Engineer, BBMP Yelahanka

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BRUHAT BANGALORE MAHANAGARA PALIKE
INSPECTION REPORT

Sl No	Item	Description
1	Name of Work	Improvement to Road drains and Asphalting to roads in Vinayaka L/O 2nd main, 2nd stage in ward no:07, Byatarayanapura in kodigehalli sub division (Sl. No.10)
2	Estimate Cost	19.74 Lakhs
3	Administrative Approval No and Date	JC/YEL/AA/711/12-13 dated 7/1/13
4	Technical sanction No. and Date	EE/BTP/TS/304/12-13dated 10/1/13
5	Job Code No. and P Code No.	007-13-000011 P-1771
6	Tender Direct Entrested to KRIDL	--
7	If Tender, Tender Notification No. Date and Publication in daily news Paper	EE/BtTO/BBMP/E-Proc / 19/12-13
8	Tender Approved Details	Data not available
9	Work Order No and Date	EE/BTP/BBMP/E.TND/06/12-13 dated 17/5/13
10	Stipulation time of Completion	60 days
11	Actual Date of Commencement	Data not available
12	Actual Date of Completion	Data not available
13	Delay if any	Data not available
14	Reson for Delay	Data not available
15	Payment made till date.	--
16	BR NO. and Date	115 dated 29/6/13
17	Status of Work	Completed
18	Photograph verfied	Yes
19	Date of Inspection	22.05.15
20	MB No. and Page No.	1887 Page 188625
21	Test Result	Please Refer Anncxure -1
22	Section officer	Basvaraju
23	Sub Division Officer	K P Neelakantaiah

24	**Observation**	Please Refer Anncxure -2
a	**Work Quality**	Satisfactory
b	**Comments**	It was oberved that the thickness of SDBC has an average thickness of 22mm. This deficiency could be attributed to the wear and tear, settlement, whip off, over a period of about 2 years which the pavement has already served.A permissble 5-10 % wear and 10% whip off can be acceptable for a pavement which has served for about 2 years.The surface texture seems to be open.This could be due to less fines and since the Mix design has not been followed. However the overall work has been carried out with good quality according to specifications. Surface condtion is good and camber has been provided. The works stands completed as on date and is found satisfactory the Bill may be considered for clearance.

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Date /15 /06 /15

Name of the work: - Improvement to Road drains and Asphalting to roads in Vinayaka L/O 2nd main, 2nd stage in ward no 07, Byatarayanapura in kodigehalli sub division

Client: - BBMP, Bytarayanapura

Sample: - Semi Dense Bituminous Core (Core No. 5)

Location: Sl.No. 10; cross road; road centre

Test Results

Check for **Semi Dense Bituminous Core**, obtained from field – Binder Content & Aggregate Gradation

Table 1

Chain age	Sieve size mm	Obtained Gradation %Passing	Desired Gradation **SDBC** Grade II % Passing	Remarks
Sl.No.10; cross road; road centre;	19	100	-	As the mix design has not been followed, the degradation of materials is observed
	13.2	98.70	100	
	9.5	84.82	90-100	
	4.75	31.74	35-51	
	2.36	16.55	24-39	
	1.18	11.01	15-30	
	0.6	8.69	-	
	0.3	6.54	9-19	
	0.15	4.42	-	
	0.075	2.27	3-8	

Check for Binder Content in **BC** Core {Grade II} {Sl.No. 10; cross road; road centre} –
By Bitumen Extraction Test

Total weight of Semi Dense bituminous (Core) mix taken-500g

Table 2

Binder Content	Binder Content for SDBC Grade II as per MoRTH specification.	Remarks
3.58 %	Requirement Min 5.0%	Deficiency due to evaporation of volatiles and ageing

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ANNEXURE 2- INSPECTION REPORT - OBSERVATIONS

Name of the Work: Improvement to Road drains and Asphalting to roads in Vinayaka L/O 2nd main, 2nd stage in ward no:07, Byatarayanapura in kodigehalli sub division

Sl No	Item	Measurements and Qty as per Claims (MB & Bills)	Measurements and Qty as per Actuals	Deviation	% Deviation
1	**Length of stretch**	286m	286m	NIL	NIL
2	**Width of the stretch**	3.8m	3.4m avg	0.4m	11%
3	**Providing & laying of SDBC**	25mm	22mm	3mm	12%

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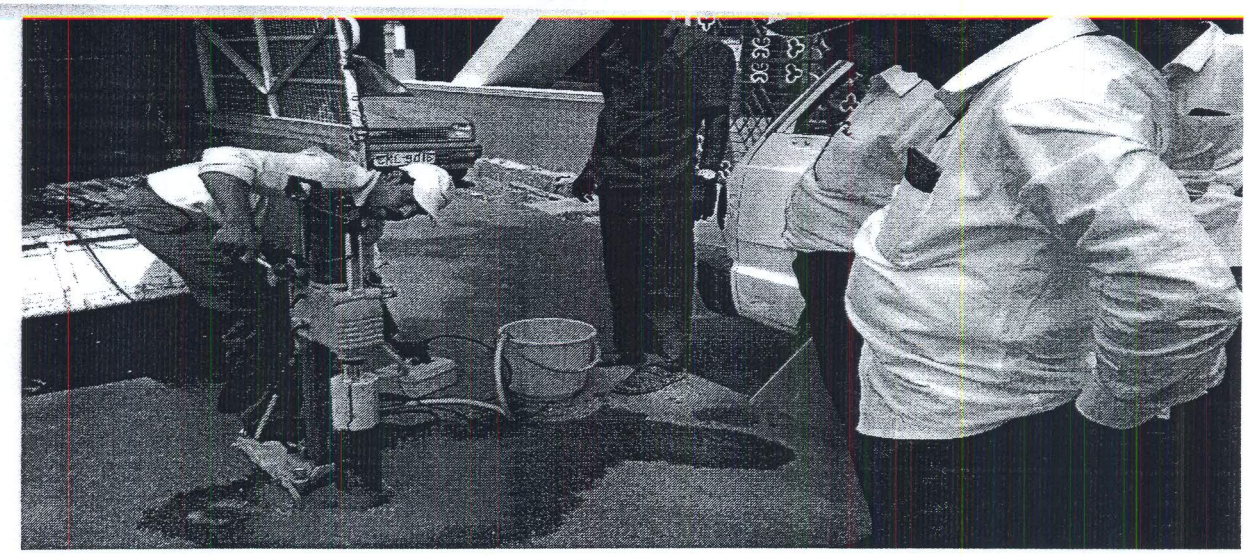

Improvement to Road drains and Asphalting to roads in Vinayaka L/O 2nd main, 2nd stage in ward no:07, Byatarayanapura in kodigehalli sub division (Sl. No.10) – Core being extracted for thickness checking